## **CLAIMS**

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1. A composition to be used in a process for electroplating surfaces with tin, said composition comprising the following components (q/l):

- Tin (in a form of tin sulfamate)

50-90

- Sulfamic acid, free

40-10**0** 

Sulfates, in a form of SO<sub>4</sub><sup>2-</sup>

0-15

- Nitrogen-bearing block copolymer

of propylene oxide and ethylene oxide

1-6

said copolymer having molecular weight of 3950 to 6450 and "number of ethylene oxide links-to-number of propylene oxide links" ratio of 1.4-1.2:1.0 at initial buildup of required number of links from propylene oxide followed by oxyethylation.

- 2. Composition according to claim 1 having a pH of 0.6 to 1.1.
- 3. Method for electrotinning a surface in form of a steel strip or plate characterized in that a tinning composition according to claims 1 or 2 is used.
- 4. Method according to claim 3 performed in continuous electrotinning lines with strip conveying speed of 2 to 11 *m/s*.
- 5. Method according to claim 3 performed at temperatures of 20 to 70°C.
- 6. Method according to claim 3 performed at current densities of 5 to 70 A/dm<sup>2</sup>.
- Method according to claim 3 in which the strip or plate is subjected to a pretreatment of degreasing and pickling.
  - 8. Method according to claim 3 in which the strip or plated is subjected to a post-treatment of reflowing, passivation and oiling of tin coating.
- 9. Strip or plate electrotinned according to the method of claim 3 with a tin coating weight of 3.65 g/m², said strip or plate being characterized by a relative porosity of about 0.06%.